APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/534,313	05/09/2005	Joseph B Kejha	1411P	9799
7590 12/20/2007 Zachary T Wobensmith III 7746 101st Court			EXAMINER	
			WEINER, LAURA S	
Vero Beach, FL 32967-2871			ART UNIT	PAPER NUMBER
			1795	
				
			MAIL DATE	DELIVERY MODE
			12/20/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/534,313	KEJHA ET AL.
Office Action Summary	Examiner	Art Unit
	Laura S. Weiner	1795 ·
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	e correspondence address
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perion. - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b)	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be add will apply and will expire SIX (6) MONTHS froute, cause the application to become ABANDO.	ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 05 2a) This action is FINAL . 2b) The 3) Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal matters, p	
Disposition of Claims		
4) ☑ Claim(s) <u>1-6 and 10</u> is/are pending in the ap 4a) Of the above claim(s) is/are withdom 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) <u>1-6, 10</u> is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.	
Application Papers		
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) and an applicant may not request that any objection to the Replacement drawing sheet(s) including the correct of the oath or declaration is objected to by the second	ccepted or b) objected to by the ne drawing(s) be held in abeyance. S ection is required if the drawing(s) is o	see 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicationity documents have been received in Rece	ation No ved in this National Stage
Attachment(s)		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informal 6) Other:	Date

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 11-5-07 have been fully considered but they are not persuasive. Applicant argues that Xue teaches that the Li2CO3 is only present in the anode or electrolyte but Xue teaches that the Li2CO3 can be present also in the cathode. Endo et al. teaches that it is known to have a lithiated cathode and a lithium compound additive such as Li2CO3. Zhang teaches that it is known to have a lithiated cathode, LiCoO2 and a lithium additive.

Claim Rejections - 35 USC § 102

Claim Rejections - 35 USC § 103

2. Claims 1-6, 10 are rejected under 35 U.S.C. 102(b) / (e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Barker (WO 01/13443)(6, 468,695).

Barker ('695) teaches on page 9, lines 21-49, a cathode electrode comprising 72.6 LMO, 0.3 lithium carbonate (Li2CO3) additive, 3.0 carbon, 7.5 binder and 16.7 plasticizer. Barker teaches that the carbon was Super P carbon and the binder was Kynar Flex 2801 binder (PVDF-HFP). Barker teaches in column 8, lines 1-4, that LiMn2O4 (LMO), LiCoO2 or LiNiO2 can be used.

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Since Barker teaches the same cathode material comprising LiCoO2, the same Li2CO3 additive, Super P carbon, PVDF-HFP and a plasticizer then inherently the same cathode would contain an additive which reduces or eliminates initial irreversible capacity loss of said cells must also be obtained.

In addition, the presently claimed property of a cathode containing an additive which reduces or eliminates initial irreversible capacity loss of said cells would have obviously have been present once the Barker product is provided. *In re Best, 195 USPQ 433 (CCPA 1977).*

3. Claims 1-3, 5-6, 10 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Xue (5,928,812).

Xue teaches in column 8, a cathode comprising 64.7 wt% of LiMn2O4, 2.0% Li2CO3, 12.2 wt% PVDF-HFP, 5 wt% carbon black and 16.1 wt% plasticizer.

Since Xue teaches a lithiated cathode material and the same Li2CO3 additive then inherently the additive which reduces or eliminates initial irreversible capacity loss of said cells must also be obtained.

In addition, the presently claimed property of an additive reducing or eliminating initial irreversible capacity loss of said cells would have obviously have been present once the Xue product is provided. *In re Best, 195 USPQ 433 (CCPA 1977).*

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4. Claims 1-3, 5-6, 10 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Endo et al. (6,022,641).

Endo et al. teaches in column 2, incorporating a specific amount of an alkali metal carbonate 0.5-20% by weight into the cathode comprising manganese oxide or lithium-manganese complex oxide is known. Endo et al. teaches in columns 7-8, Examples 1-4, a cathode comprising lithium-manganese composite oxide, Li2CO3, a conductive graphite material, a binder of polyvinylidene fluoride and dimethylformamide.

Since Endo et al. teaches a lithiated cathode material and the same Li2CO3 additive then inherently the same additive which reduces or eliminates initial irreversible capacity loss of said cells must also be obtained.

In addition, the presently claimed property of an additive reducing or eliminating initial irreversible capacity loss of said cells would have obviously have been present once the Endo et al. product is provided. *In re Best, 195 USPQ 433 (CCPA 1977).*

5. Claims 1-3, 5-6 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Zhang (US 2002/0119375).

Zhang teaches on page 4, Example II, a cathode comprising LiCoO2 treated with various amounts of LiBO2. Example II, teaches having amounts of 0.1 wt% LiBO2 and 0.15 wt% LiBO2.

Since Zhang teaches the same cathode material comprising LiCoO2 and a lithium compound additive then inherently the same additive which reduces or eliminates initial irreversible capacity loss of said cells must also be obtained.

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In addition, the presently claimed property of a cathode containing an additive which reduces or eliminates initial irreversible capacity loss of said cells would have obviously have been present once the Zhang product is provided. *In re Best, 195 USPQ 433 (CCPA 1977).*

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura S. Weiner whose telephone number is 571-272-1294. The examiner can normally be reached on M-F (6:30-4:00).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571,272-1000.

Laura S Weiner Primary Examiner Art Unit 1795

December 12, 2007